


Engineer: Chris Samios	Date: 2/26/04	 <b>JPS Communications</b> 5800 Departure Drive, Raleigh, NC 27616			
Drawn: Jack Curtis	Date: 2/26/04				
Approved: CTS	Date: 2/27/04	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 3/25/04	Size: A	Dwg. #: <b>5961-271131-APP</b>	Rev: <b>A</b>	Sheet: 1            Of    1

**APPLIES TO:**                      Motorola HT-600 Portable Radio  
Motorola MT-1000 Portable Radio

**RADIO MODIFICATIONS:**    None required.

**RADIO PROGRAMMING:**       None required.

**RADIO CONTROLS:**

1.        Adjust the Volume Control until the yellow "SIGNAL" indicator on the associated DSP Module flashes with receive audio. Should be about in the mid-range (12 o'clock) position.

**CABLING:**

Standard ACU-1000 and ACU-T Interface cables are made up of a 2 foot TRP Radio Tray Interface cable and the appropriate 13-foot Extension cable.

ACU-1000 Interface Cable	JPS P/N 5961-291131	(5961-271131 + 5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281131	(5961-271131 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271131	
Radio RF Connector Type		

**DSP PROGRAMMING:**

RX Level	4	-4dBm
TX Level	7	4dBm
Squelch Type	VOX*	
COR Polarity	Active Low*	
High Frequency Equalizer	6	3.5 dB Boost
RX Audio Delay	2*	100 ms*
TX Audio Delay (Radio Type)	0*	No Delay*
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*
All Others	As needed	

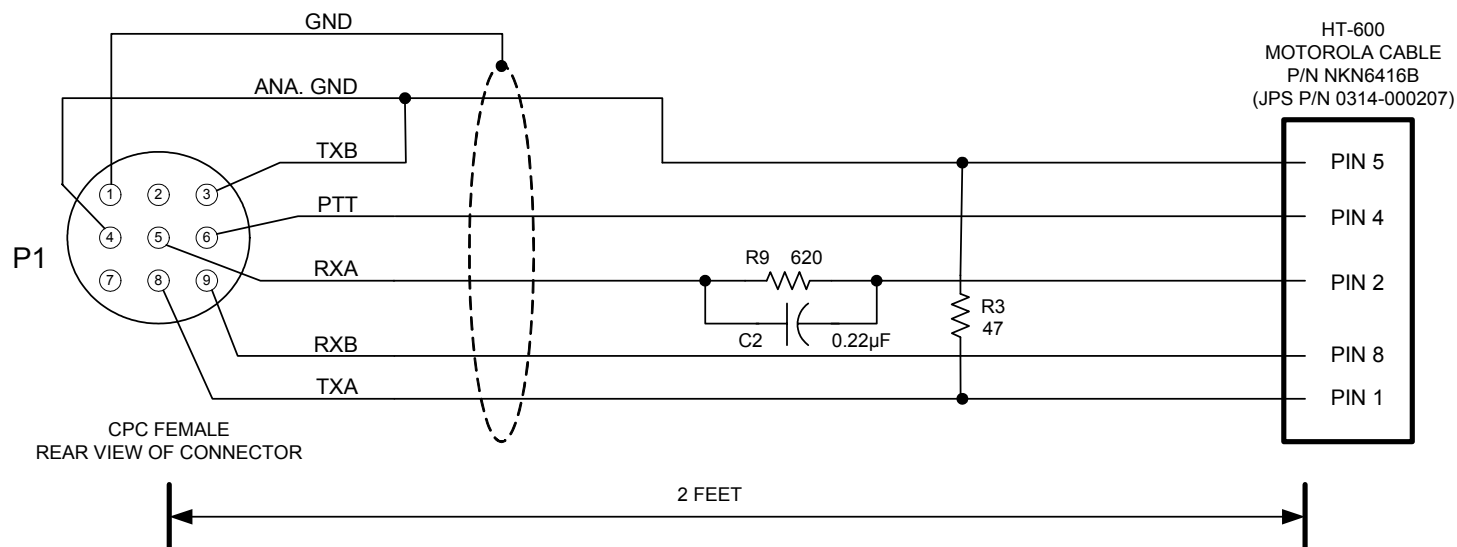
(\* Indicates Default Value)

**NOTES:**

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## PURCHASED PART

USE MOLDED CABLE  
(JPS P/N 5961-261003-00)



CPC FEMALE  
REAR VIEW OF CONNECTOR

COMPONENT PCB  
(JPS P/N 5961-271000)

C2 JPS P/N 0327-226500  
R3 JPS P/N 1820-470000  
R9 JPS P/N 1820-621000  
JU1  
JU2  
JU5

USED WITH:  
MOTOROLA HT-600 PORTABLE  
MOTOROLA MT-1000 PORTABLE

NOTE: SHIELD DRAIN CONNECTED TO PIN 1 OF P1 ONLY.

Designed By: CTS	<b>Raytheon JPS Communications</b> Raleigh, NC USA		
Drawn By: EDV	Title CABLE, CPC TO MOTOROLA HT-600		
Checked By: JAC	Size A	Document Number <b>5961-271131</b>	Rev A
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# PURCHASED PART

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- NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.  
2) CONNECT SHIELD DRAIN TO SHELL OF P1 ONLY.  
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.  
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

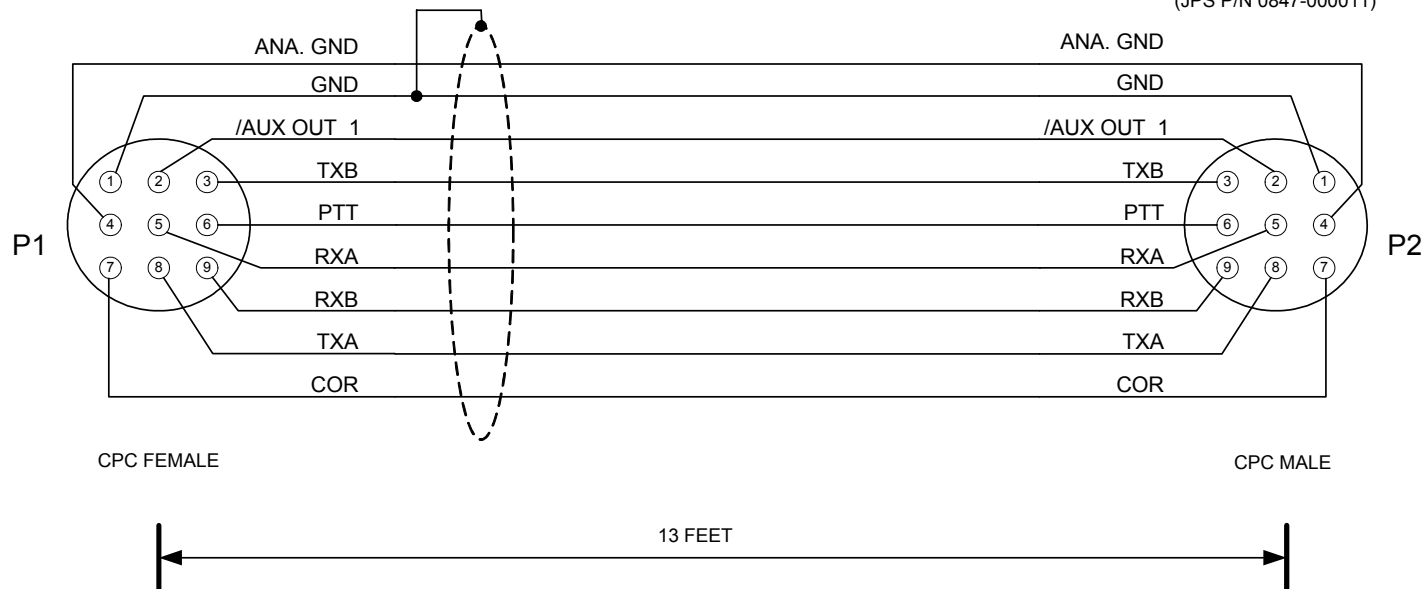
Designed By: JAC	<b>Raytheon JPS Communications</b>		
Drawn By: JAC	Title CABLE, ACU-1000 RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number <b>5961-261002-00</b>	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	

Rev	ECO	Date
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## PURCHASED PART

CONNECTOR AMP P/N 206708-1  
(JPS P/N 0362-005003)  
FEMALE PIN AMP P/N 1-66105-8  
(JPS P/N 0362-005002)

CONNECTOR AMP P/N 206705-4  
(JPS P/N 0362-009001)  
MALE PIN AMP P/N 1-66103-7  
(JPS P/N 0847-000011)



- NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.  
2) CONNECT SHIELD DRAIN TO PIN 1 OF P1 ONLY.  
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.  
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

Designed By: JAC	<b>Raytheon JPS Communications</b> Raleigh, NC USA		
Drawn By: JAC	Title CABLE, ACU-T RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number <b>5961-281013-00</b>	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	